Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 330300146WO1	FOR FURTHER ACTION SeeNotificationofTransmittalofInternational Preliminary Examination Report (Form PCT/IPEA/416)							
International application No. PCT/JP2003/008927	International filing date (day/ 14 July 2003 (14.07		Priority date (day/month/year)					
International Patent Classification (IPC) or G02F 1/1343, 1/1368	national classification and IPC							
Applicant HITACHI DISPLAYS, LTD.								
This international preliminary exa and is transmitted to the applicant	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of 3 sheets, including this cover sheet.								
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
These annexes consist of a total of sheets.								
3. This report contains indications re	elating to the following items:							
I Basis of the report								
II Priority			·					
III Non-establishmen	nt of opinion with regard to novel	lty, inventive s	tep and industrial applicability					
IV Lack of unity of in	invention							
V Reasoned stateme	ent under Article 35(2) with regailanations supporting such statement	rd to novelty, in ent	nventive step or industrial applicability;					
VI Certain document	ts cited							
VII Certain defects in	n the international application							
VIII Certain observations on the international application								
								
Date of submission of the demand	Date	of completion	of this report					
14 July 2003 (14.07	7.2003)	11 D	December 2003 (11.12.2003)					
Name and mailing address of the IPEA/JI	P Auth	orized officer						
Facsimile No.	Tele	phone No.						

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP2003/008927

I. Basis of the report							
1. \	With	regard to	the elements of the international application:*				
	\boxtimes	the inte	rnational application as originally filed				
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•		pages	, as originally filed				
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		pages	, as amended (together with any statement under Article 19				
		pages	, filed with the demand				
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		pages pages	, as originally filed				
		pages	, filed with the letter of, filed with the demand				
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	יו		ence listing part of the description:				
		pages	, as originally filed				
		pages	, filed with the demand				
		pages	, filed with the letter of				
With regard to the language, all the elements marked above were available or furnished to this Authority in the language is the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language w							
the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).							
	H		nguage of publication of the international application (under Rule 48.3(b)).				
	Ш	the lai	nguage of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/3).				
3.	With	h regard iminary e	to any nucleotide and/or amino acid sequence disclosed in the international application, the international examination was carried out on the basis of the sequence listing:				
	닐	contai	ned in the international application in written form.				
	닏		ogether with the international application in computer readable form.				
			hed subsequently to this Authority in written form.				
	닏	furnis	hed subsequently to this Authority in computer readable form.				
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure international application as filed has been furnished.						
	Ш	The s	statement that the information recorded in computer readable form is identical to the written sequence listing has furnished.				
4.		The a	mendments have resulted in the cancellation of:				
			the description, pages				
			the claims, Nos.				
			the drawings, sheets/fig				
5.		This re	eport has been established as if (some of) the amendments had not been made, since they have been considered to go d the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**				
*	in t	lacement his repo 70.17).	t sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to rt as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16				
*	* Any	replacei	ment sheet containing such amendments must be referred to under item 1 and annexed to this report.				
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP03/08927

V. Reasoned statement under Artic citations and explanations supp	le 35(2) with regard to orting such statement	novelty, inventive step or industrial applicability;	
1. Statement			
Novelty (N)	Claims	1-20	YES
	Claims		NO NO
Inventive step (IS)	Claims	9-17	 YES
	Claims	1-8, 18-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims		NO
<u> </u>			

2. Citations and explanations

Document 1: JP, 2003-149664 A (Hitachi, Ltd.), 21 May, 2003

Document 2: US, 6128061 A (Lee et al.), 03 October 2000

Document 3: US, 6233034 B1 (Lee et al.), 15 May, 2001

Document 4: US, 2002/1867 A1 (Sung et al.), 03 January, 2002 Document 5: JP, 11-101992 A (Sharp Corp.), 13 April, 1999

Document 6: US, 6281952 B1 (Okamoto et al.), 28 August, 2001

The subject matter of 1 to 2, 4, and 18 to 20 does not appear to involve an inventive step in view of document 1 and document 2. Adopting the electrode structure disclosed in document 2 (column 11, line 5 to column 12, line 4, and Fig. 16) for an area among the electrode structures disclosed in document 1 (paragraphs 0066 to 0070, Fig. 9) wherein the counter-electrode is a reflective-type, would be easy for a person skilled in the art.

The subject matter of claim 3 does not appear to involve an inventive step in view of document 1 and 2 and document 3 and 4 cited in the ISR. Making an entire counter-electrode from a translucent member is widely known (for example, refer to document 3, column 20, line 25 to column 21, line 18, Fig. 14, and Fig. 15; document 4, paragraphs 0005 to 0007, and Fig. 2), and forming an entire counter-electrode from a translucent member would be easy for a person skilled in the art.

The subject matter of claims 5 to 8 does not appear to involve an inventive step in view of document 5 and document 6 cited in the ISR. Increasing the cell thickness of a reflective region to be larger than that of a transmissive region by varying the thickness of an insulation film on an electrode is widely known (for example, refer to document 5, (paragraphs 0057 to 0063, Fig. 10), document 6 (column 18, line 21 to column 20, line 14, Fig. 1), and increasing the cell thickness of a reflective region to be larger than that of a transmissive region by varying the thickness of an insulation film on an electrode in the invention of document 1 wherein the electrode structure of document 2 is employed would be easy for a person skilled in the art. In addition, the specific thickness of an insulation film and the cell thickness of a transmissive region and a reflective region respectively could be designed easily by a person skilled in the art.

The subject matter of claims 9 to 17 is neither described in any of the documents cited in the ISR nor obvious to a person skilled in the art.